**Precalculus**

**Notes 4.4**

1. **Introduction**

Let’s leave the unit circle and move on to a circle with radius .

Now define the 6 Trig functions with

**Ex. 1:** Let be a point on the terminal side of . Find .

**Ex. 2:** Given Find & .

1. **Reference Angles**

Definition: Let be an angle in standard position. Its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the acute angle formed by the terminal side of and the horizontal axis.

**Ex. 4:** Find the reference angle for

1. **Trig Functions of Real Numbers**

To find the value of a trig function of any angle

1. Find the reference angle and its value.
2. Put appropriate sign on the value depending on which quadrant is in.

**Ex. 5:** Evaluate the following.

**Ex. 6:** Let be an angle in Quadrant II . Use trig identities to find:

**Ex. 7:** Use a calculator to find:

1. for